

CLAIMS:

1. A portable information processing apparatus comprising:

two display devices;

two frames which mount thereon said two display devices respectively; and

hinges for coupling said frames with each other; wherein:

in the case that each of said display devices performs a monochrome display, each of said display devices owns a display surface for displaying an image whose pixel size is smaller than, or equal to 127 μm ;

said two frames are pivotally supported by said hinges in an openable/closable manner; and

when said two frames are closed, two display portions are brought into such a condition that said two display portions are overlapped with each other and are folded into two displays while said hinges are set to a fulcrum, whereas when said two frames are opened, said two display portions are brought into a two-page spreading condition, while said hinges are set to the fulcrum.

2. A portable information processing apparatus comprising:

two display devices;

two frames which mount thereon said two display devices respectively; and

hinges for coupling said frames with each

other; wherein:

in the case that each of said display devices performs a gray scale display, each of said display devices owns a display surface for displaying an image whose pixel size is smaller than, or equal to $84.7\ \mu\text{m}$;

said two frames are pivotally supported by said hinges in an openable/closable manner; and

when said two frames are closed, two display portions are brought into such a condition that said two display portions are overlapped with each other and are folded into two displays while said hinges are set to a fulcrum, whereas when said two frames are opened, said two display portions are brought into a two-page spreading condition, while said hinges are set to the fulcrum.

3. A portable information processing apparatus comprising:

two display devices;

two frames which mount thereon said two display devices respectively; and

hinges for coupling said frames with each other; wherein:

each of said display devices owns a display surface for displaying an image whose pixel size is smaller than, or equal to $42.3\ \mu\text{m}$;

said two frames are pivotally supported by said hinges in an openable/closable manner; and

when said two frames are closed, two display

portions are brought into such a condition that said two display portions are overlapped with each other and are folded into two displays while said hinges are set to a fulcrum, whereas when said two frames are opened, said two display portions are brought into a two-page spreading condition, while said hinges are set to the fulcrum.

4. A portable information processing apparatus as claimed in claim 1 wherein:

in the case that an electronic book is displayed on said display surface, said hinges own a page-turning-over function by which pages of said electronic book are turned over.

5. A portable information processing apparatus as claimed in claim 1 wherein:

said information processing apparatus is comprised of a rotation portion which is laterally rotated along a longitudinal direction and at a lower portion of said hinges.

6. A portable information processing apparatus comprising:

two display devices;

two frames which mount thereon said two display devices respectively; and

hinges for coupling said frames with each other; wherein:

each of said display devices owns a display surface;

said hinges own rotation portions which are laterally rotated along a longitudinal direction and at a lower portion of said hinges;

said two frames are pivotally supported by said hinges in an openable/closable manner; and

when said two frames are closed, two display portions are brought into such a condition that said two display portions are overlapped with each other and are folded into two displays while said hinges are set to a fulcrum, whereas when said two frames are opened, said two display portions are brought into a two-page spreading condition, while said hinges are set to the fulcrum.

7. A portable information processing apparatus as claimed in claim 5 wherein:

said rotation portions correspond to such shorter-side-at-top rotation portions which are laterally rotated along the longitudinal direction and at center lower portions of said hinges; and

an image which is displayed on said display surface is changed by rotating said rotation portions.

8. A portable information processing apparatus as claimed in claim 5, or claim 6 wherein:

a switch required so as to operate said portable information processing apparatus is owned at one edge portion of any one of said two frames.

9. A portable information processing apparatus as claimed in claim 8 wherein:

under such a condition that said two display surfaces are overlapped with each other and are fold to two displays so as to be stored, said portable information processing apparatus has an outside display at such a position of the other frame on which said switch is not mounted, said position being overlapped with the frame on which said switch is mounted.

10. A portable information processing apparatus as claimed in claim 1 wherein:

said hinges own an indicator for displaying a condition of a power supply; and

said indicator can be visually recognized from an external area even under such a condition that said two display surfaces have been overlapped with each other and have been fold to two displays so as to be stored.

11. A portable information processing apparatus comprising:

two display devices;

two frames which mount thereon said two display devices respectively; and

hinges for coupling said frames with each other; wherein:

said two display devices own a first display surface for executing an image display operation of predetermined resolution, and a second display surface for executing a character display operation in higher resolution than that of said first display surface;

said two frames are pivotally supported by said hinges in an openable/closable manner; and

when said two frames are closed, said first and second display surfaces are brought into such a condition that said first and second display surfaces are overlapped with each other and are folded into two displays while said hinges are set to a fulcrum, whereas when said two frames are opened, said first and second display surfaces are brought into a two-page spreading condition, while said hinges are set to the fulcrum.

12. A portable information processing apparatus as claimed in claim 11 wherein:

a portion of the frame on which said display device having said first display surface is mounted owns a solar cell.

13. A portable information processing apparatus comprising:

a frame on which a display device having a display surface is mounted;

a cover for protecting the display surface of said display device; and

a hinge for coupling said frame to said cover; wherein:

said display device owns a display surface capable of displaying thereon an image in a pixel size smaller than, or equal to 84.7 μm ;

said frame and said cover are pivotally

supported by said hinge in an openable/closable manner;
and

when said cover protects said frame, said cover is rotated while said hinge is set to a fulcrum so as to cover said display surface within said frame; whereas when the display surface within said frame is visually confirmed, said cover is rotated while said hinge is set to the fulcrum so as to expose said display surface.

14. A portable information processing apparatus as claimed in claim 13 wherein:

said portable information processing apparatus comprises:

a receiver capable of receiving information which is displayed on said display surface in a wireless communication manner;

a holder for storing thereinto a pen which is used to operate the information displayed on said display surface; and

a switch used to operate the information displayed on said display surface.

15. A portable information processing apparatus as claimed in claim 13 wherein:

said portable information processing apparatus comprises a means capable of changing the image displayed on said display surface into either a longer-side-ways image or a shorter-side-at-top image.

16. A portable information processing apparatus

as claimed in claim 13 wherein:

a length of said frame along the longitudinal direction is made longer than a length of said cover along the longitudinal direction.

17. A portable information processing apparatus as claimed in claim 16 wherein:

a portion of said frame which is not covered by said cover under such a condition that said cover and said frame are closed owns an outside display.

18. A portable information processing apparatus as claimed in claim 16 wherein:

a portion of said frame which is not covered by said cover under such a condition that said cover and said frame are closed owns a solar cell.

19. An image displaying method in the portable information processing apparatus recited in claim 5, wherein:

a page-turning-over operation of an electronic book is carried out by that said electronic book is displayed on said two display surfaces under two-page spreading condition, and said rotation portion is operated.

20. An image displaying method in the portable information processing apparatus recited in claim 9, wherein:

a page-turning-over operation of an electronic book is carried out by that said electronic book is displayed on said two display surfaces under

two-page spreading condition, and said rotation portion is operated; and bibliographic information containing a page position of the electronic book which is displayed on said display surfaces is displayed on said outside display in correspondence with said page-turning-over operation.

21. An image displaying method in the portable information apparatus recited in claim 11, wherein:

a Web screen is displayed on said first display surface, and the electronic book is displayed on said second display surface.

22. An image displaying method in the portable information apparatus recited in claim 17, wherein:

information for indicating a content of an image which is displayed on said display surface is displayed on said outside display.